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GENSETS: GENerators for Small Electrical and Thermal Systems (GENSETS)

Release Date: 07-16-2015Open Date: 07-16-2015Due Date: 08-17-2015Close Date: 08-17-2015

PLEASE NOTE: A prior Letter of Intent is not required for this specific FOA from DOE-ARPA-E. SUMMARY The GENSETS Program – GENerators for Small Electrical and Thermal Systems – seeks to fund the development of potentially disruptive generator technologies that will enable widespread deployment of residential Combined Heat and Power (CHP) systems. Here, CHP is defined as the distributed generat ...

SBIRSTTR Department of EnergyARPA-E

2. SB152-001: Cell Free Platforms for Prototyping and Biomanufacturing

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

There is a critical need for capabilities that will enable DoD to leverage the unique and powerful attributes of biology to solve challenges associated with production of new materials, novel capabilities, fuels, and medicines. This topic is focused on improving the utility of cell-free systems as a platform technology to address key technical hurdles associated with current practices in engineeri ...

SBIR Defense Advanced Research Projects AgencyDepartment of Defense

3. SB152-002: Cortical Modem Systems Integration and Packaging

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The DoD has a critical need for breakthrough medical therapies to treat wounded warriors with multiple comorbidities of sensory organs. This topic seeks to integrate state-of-the-art electronics, packaging, and passivation technologies with the latest low-power data and power delivery semiconductor components in a single package. In other words, DARPA seeks to wirelessly bridge cortical neural act ...

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4. SB152-003: Broadband Self-calibrated Rydberg-based RF Electric Field and Power Sensor

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

There is a critical need for capabilities that will enable the DoD to have self-calibrated electric field and power sensors in the RF, microwave, and millimeter-wavelength regimes. This topic seeks the demonstration of a portable broadband (1 GHz – 1 THz) electric field, power sensor, or key components towards a device. The sensor should be capable of operating in greater than 1 kV/m electric fi ...

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Published on SBIR.gov (https://www.sbir.gov)

5. <u>SB152-004: Many-Core Acceleration of Common Graph Programming</u> Frameworks

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Today there is a DoD need for graph analytics capabilities, which are critical for a large range of application domains with a vital impact on both national security and the national economy, including, among others: counter-terrorism; fraud detection; drug discovery; cybersecurity; social media; logistics and supply chains; e-commerce, etc. Widely used graph development frameworks have enabled o ...

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6. SB152-005: Ovenized Inertial Micro Electro Mechanical Systems

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

There is a critical DoD need for capabilities that focus on temperature stabilization of MEMS inertial sensors to improve bias and scale factor stability. Military operations rely on satellite-based Global Positioning System (GPS) for precision Positioning, Navigation & Timing (PNT) information. However, GPS is an extremely small signal, which may be degraded due to signal interference or obstruct ...

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7. <u>SB152-006</u>: <u>Compact, Configurable, Real-Time Infrared Hyperspectral Imaging System</u>

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

There is a compelling DoD need to create a low cost, compact and reconfigurable infrared imaging spectrometer that can operate in real time, and in a variety of backgrounds and ambient conditions. Hyperspectral imaging (HSI) systems have been fielded for the detection of hazardous chemical and explosives threat materials, tag detection, friend vs. foe detection (IFF) and other defense critical sen ...

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8. SB152-008: Low Cost Expendable Launch Technology

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

There is a compelling DoD need to leverage emerging commercial entrepreneurial and defense technologies enabling lightweight, high-specific-energy liquid-rocket technology. Many established aerospace and emerging entrepreneurial companies are developing new rocket stage technologies that promise to reduce the cost of access to space. The goal of this topic is to leverage these investments to enabl ...

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9. 1: MOSAIC STTR

Release Date: 12-08-2014Open Date: 12-08-2014Due Date: 01-22-2015Close Date: 01-22-2015

The MOSAIC (Micro-scale Optimized Solar-cell Arrays with Integrated Concentration) Program will fund potentially disruptive technologies and related system concepts to achieve new performance and cost benchmarks for solar-electric generation from photovoltaics (PV). Specifically, MOSAIC will develop novel concepts that integrate arrays of high-performan ...

STTR Department of Energy

10.

Release Date: 11-25-2013Open Date: 11-25-2013Due Date: 02-04-2014Close Date: 02-04-2014

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